# California Regional Water Quality Control Board

San Francisco Bay Region



1515 Clay Street, Suite 1400, Oakland, California 94612 (510) 622-2300 • Fax (510) 622-2460 Alan C. Lloyd Ph.D. http://www.waterboards.ca.gov/sanfrancicobay Agency Secretary

Date:

File No. 2119.1058 (LM)

IR Manager, Seal Beach Attn: Ms. Margaret Wallerstein Code N45WS 800 Seal Beach Blvd. Seal Beach, CA 90740-5000

Subject:

Case Closure Letter for Underground Storage Tank Site E-85, Naval Weapons Station Seal Beach Detachment Concord, Concord, California (RWOCB Case No. 07D9023)

Dear Ms. Wallerstein:

This letter confirms the completion of a site investigation and corrective action for the underground storage tank formerly located in the Tidal Area west of Born Road between former building E-108 and building E-85. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, this agency finds that the site investigation and corrective action carried out at your underground storage tank(s) site is in compliance with the requirements of subdivisions (a) and (b) of Section 25296.10 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.3 of the Health and Safety Code and that no further action related to the petroleum release(s) at the site is required. This notice is issued pursuant to subdivision (g) of Section 25296.10 of the Health and Safety Code.

Meillier staff 510-622-2440 Please contact Laurent of my at or email Lmeillier@waterboards.ca.gov if you have any questions regarding this matter.

Sincerely,

**Executive Officer** 

Preserving, enhancing, and restoring the San Francisco Bay Area's waters for over 50 years California Environmental Protection Agency



CC:

Engineering Command Southwest/ Integrated Product Team West Attn: Mr. Randy Cate 2001 Junipero Serra Blvd. Suite 600 Daly City, CA 94014-1976

City of Concord Attn: Mr. James Forsberg 1950 Parkside Dr. MS/ 1A Concord, CA 94519

Contra Costa County Health Services Department Attn: Ms. Sue Loyd 4333 Pacheco Boulevard Martinez, CA 94553

DTSC Attn: Mr. Jim Pinasco 8800 Cal Center Drive Sacramento, CA 95826-3200

USEPA Attn: Mr. Philip Ramsey SFD-8-3 USEPA REGION 9 75 Hawthorne St. San Francisco, CA 94105

Tetra Tech EM Inc. Attn: Mr. Mark Reisig 10860 Gold Center Dr. Suite 200 Rancho Cordova, CA 95670

Contra Costa County Environmental Health Attn: Ms. Agnes Vinluan 2120 Diamond Blvd. Suite 200 Concord, CA 94520 Co-Chair RAB Member Attn: Ms. Mary Lou Williams 1015 San Miguel Road Concord, CA 94518-2110



## California Regional Water Quality Control Board

San Francisco Bay Region

1515 Clay Street, Suite 1400, Oakland, California 94612 (510) 622-2300 • Fax (510) 622-2460 http://www.waterboards.ca.gov/sanfranciscobay



Date:

File No. 2119.1058 (LM)

IR Manager, Seal Beach Attn: Ms. Margaret Wallerstein Code N45WS 800 Seal Beach Blvd. Seal Beach, CA 90740-5000

Subject:

Transmittal of Closure Letter and Site Summary for Underground Storage Tank Site E-85, Naval Weapons Station Seal Beach Detachment Concord,

Concord, California (RWQCB Case No. 07D9023)

Dear Ms. Wallerstein:

Attached please find the uniform underground storage tank (UST) closure letter and the site closure summary forms for the above referenced USTs. This letter documents that, based on available information, No Further Action (NFA) related to the above mentioned underground storage tank releases is required.

This NFA status applies only to releases of petroleum from fuel USTs at the above referenced site. For those sites where groundwater is polluted by non-petroleum related chemicals or where other sources of petroleum pollution exist (e.g., fuel lines, spills, and above ground tanks), this determination is applicable only to soil and groundwater impacts associated with these UST releases. UST Site E-85 current landuse is industrial and commercial. This site was determined to meet Water Board closure criteria for this use scenario. However, the Regional Water Quality Control Board shall be notified of any changes in future land use.

Preserving, enhancing, and restoring the San Francisco Bay Area's waters for over 50 years

California Environmental Protection Agency



Please contact Laurent Meillier of my staff at 510-622-2440 or email Lmeillier @waterboards.ca.gov if you have any questions regarding this matter.

Sincerely,

John E. Kaiser. CEG.

Section Leader

DoD/DOE Program Manager

John C Kais

Groundwater and Waste Containment Division

#### **Enclosures**

- -1- Case Closure Letter
- -2- Site Summary Form

CC:

Engineering Command Southwest/ Integrated Product Team West Attn: Mr. Randy Cate 2001 Junipero Serra Blvd. Suite 600 Daly City, CA 94014-1976

City of Concord Attn: Mr. James Forsberg 1950 Parkside Dr. MS/ 1A Concord, CA 94519

Contra Costa County Health Services Department Attn: Ms. Sue Loyd 4333 Pacheco Boulevard Martinez, CA 94553

DTSC Attn: Mr. Jim Pinasco 8800 Cal Center Drive Sacramento, CA 95826-3200

USEPA Attn: Mr. Philip Ramsey SFD-8-3 USEPA REGION 9 75 Hawthorne St. San Francisco, CA 94105

Tetra Tech EM Inc. Attn: Mr. Mark Reisig 10860 Gold Center Dr. Suite 200 Rancho Cordova, CA 95670

Contra Costa County Environmental Health Attn: Ms. Agnes Vinluan 2120 Diamond Blvd. Suite 200 Concord, CA 94520 Co-Chair RAB Member Attn: Ms. Mary Lou Williams 1015 San Miguel Road Concord, CA 94518-2110 **Site Summary Form** 

27-Oct-05

Facility Name: Concord NWS

Staff Initials: Laurent Meillier

County Name: Contra Costa

Site: UST E-85

**RB File No.:** 07D9023

County Code: 07

Address: Born Road

Concord , CA 94520

Hydrology

**Nearest Surface Water:** 

Belloma Slough

Direction of GW Flow:

North

Distance to Surface Water (ft.): 800

Highest GW Depth (ft):

Water Wells Affected?: No

Distance to Wells (ft): >1500

No. Wells: 0

Lowest GW Depth(ft):

NA

Groundwater Benef. Use: MUN

Geology

Black, high plasticity silty clay and brown-blue medium placticity silty clay (Bay Mud).

Pit Samples Submitted?: Yes No. Borings: 1

Ground Elev. (ft.): 9

**Site Management** 

**Potential** 

**Ecological Risk:** 

Non-detectable BTEX and low concentrations of TPH-d in samples taken at 8 ft bgs, suggest no impact to terrestrial biological receptors.

Future Land Use:

Military, light industrial

**Human Health Risk:** 

Concentrations of BTEX detected in soils are below their respective PRGs.

**Current Land Use:** 

Military, light industrial

Institutional Controls:

Per 1995 SFB Basin Plan, the existing use applicable to groundwater in the Clayton Valley includes municipal and potental groundwater uses, including domestic, industrial, industrial process, and agricultural water supplies.

Management Requirements: Current land use is industrial/commercial. If land use changes to residential, RWQCB requires notification of land use change.

07D9023

Page 1 of 5

10/27/2005 6:02:39 PM

#### Comments:

The site includes a 1,500 gallons capacity UST (Underground Storage Tank) that held diesel fuel used to heat Building E-85. On September 9, 1993, a boring was drilled north of the UST to a depth of 16 feet bgs (below ground surface). A slight petroleum odor was noticed in soil samples collected from 4.5 and 8 feet bgs, and organic vapors were detected (by PID) in both samples. TPH-d was detected at 40 and 48 ppm in the samples. TPH-d was detected in samples collected at 4.5 and 7.5 feet bgs at 12,000 and 98 ppm, respectively. A grab groundwater sample collected from the borehole on September 10, 1993 showed TPH-d detected at 0.1 ppm. Excavation and tank removal commenced on April 22, 1997, and the tank was removed on April 24, 1997. Holes were noted on the bottom of the eastern end of the UST and the bottom of the UST was coated with diesel product. Groundwater was found in the UST pit at approximately 7 feet bgs. Dimensions of the initial excavation measured approximately 17.5 feet long by 6.5 feet wide.

Two soil samples were collected from the east and west sidewalls at a depth of 7 feet bgs on April 24, 1997. Neither TPH-d nor BTEX was detected in the samples. Additional excavation was performed on May 1, 1997 to extend the northern and southern sidewalls approximately 2 feet and to deepen the base of the pit to approximately 9 feet bgs. Final dimensions of the overexcavation measured 17.5 feet long by 10.5 feet wide. Approximately 54 cubic yards of earth materials was removed from the excavation. Three soil samples were collected from the sidewalls and bottom of the pit following overexcavation. A sample collected at 8 feet bgs from the northern sidewall contained 20 ppm TPH-d and contained no detectable BTEX. TPH-d and BTEX were not detected in the other samples. One groundwater sample was collected on May 1, 1997 after overexcavation and was analyzed for TPH-d and BTEX. The sample contained 12,000 ppb TPH-d and 0.84 ppb total xylenes. The UST excavation was dewatered on May 7, 1997 and sampled on May 8 to evaluate the reduction of hydrocarbon levels. Approximately 350 gallons of water were pumped from the excavation and placed in an AST (Above Ground Storage Tank). One sample was collected and analyzed for TPH-d and BTEX. The sample contained 2,500 ppb TPH-d and 0.82 ppb total xylenes. The TPH-d detection exceeds the groundwater Environmental Screening Level (commercial/ industrial scenario) of 100 ppb based on nuisance. However, two groundwater samples taken from E108MW09 in 1998 and 1999, vielded TPH-d concentrations below the detection limit of 0.5 ppb. E108MW09 is located approximately 18 feet downgradient of the former UST site E-85.

The UST excavation was backfilled on May 8, 1997, and the site was payed on May 12, 1997. A total of 70,78 tons of non-regulated petroleum contaminated soil, 7 cubic yards of concrete rubble, and 350 gallons of water were transported and disposed of on May 8, 13, and 21, 1997. Per the Navy statement in the 1998 KTW report: "Impact to ground water by diesel hydrocarbons is inferred to be localized, based on observed site geology, and is not likely to affect human health or the environment."

Reports:

KTW and Associates. 1998. "Report Closure of Underground Storage Tank Site E85." February.

#### Staff Notes:

### Remedial Activity

| Action Taken                        | Amount (gallons) |  |  |
|-------------------------------------|------------------|--|--|
| Free Product: Diesel fuel and water | 75               |  |  |
| Soil: Excavate and disposal         | 70.78 tons       |  |  |
| Ground Water: Pumped to AST         | 350              |  |  |
| Vapor: None                         | 0                |  |  |

### **Groundwater Results, ppb**

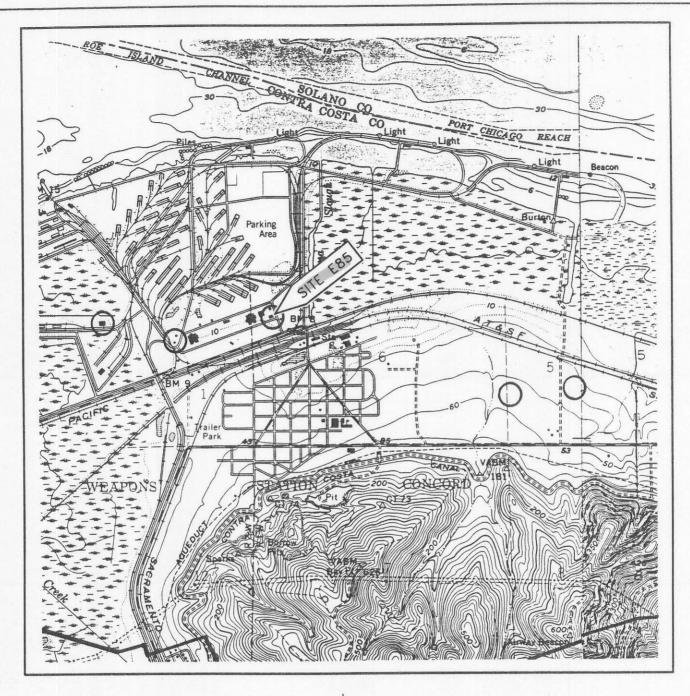
| pling Date | Sample No   | Source Matrix | Sampling Phase | Analyte Name | Qualifier | Value | Unit | MW Elevation MW Latitude | MW Longitude |
|------------|-------------|---------------|----------------|--------------|-----------|-------|------|--------------------------|--------------|
| 4/24/1997  | E85-W-9-T1C | Water         | Initial        | Benzene      | <         | <0.5  | ppm  | 38.04                    | -122.02      |
| 4/24/1997  | E85-W-8-T1C | Water         | Initial        | Benzene      | <         | <0.5  | ppm  | 38.04                    | -122.02      |
| 4/24/1997  | E85-W-8-T1C | Water         | Initial        | Ethylbenzene | <         | <0.5  | ppm  | 38.04                    | -122.02      |
| 4/24/1997  | E85-W-9-T1C | Water         | Initial        | Ethylbenzene | <         | <0.5  | ppm  | 38.04                    | -122.02      |
| 4/24/1997  | E85-W-9-T1C | Water         | Initial        | Toluene      | <         | <0.5  | ppm  | 38.04                    | -122.02      |
| 4/24/1997  | E85-W-8-T1C | Water         | Initial        | Toluene      | <         | <0.5  | ppm  | 38.04                    | -122.02      |
| 4/24/1997  | E85-W-8-T1C | Water         | Initial        | Tph-d        | <         | 2500  | ppm  | 38.04                    | -122.02      |
| 4/24/1997  | E85-W-9-T1C | Water         | Initial        | Tph-d        | <         | 12000 | ppm  | 38.04                    | -122.02      |
| 4/24/1997  | E85-W-9-T1C | Water         | Initial        | Xylene       | <         | 0.84  | ppm  | 38.04                    | -122.02      |
| 4/24/1997  | E85-W-8-T1C | Water         | Initial        | Xylene       | <         | 0.82  | ppm  | 38.04                    | -122.02      |
| 5/1/1997   | W-9-T1C     | WATER         | Initial        | BENZENE      | Ú         | 0.5   | ppb  |                          |              |
| 5/1/1997   | W-9-T1C     | WATER         | Initial        | ETHYLBENZENE | U         | 0.5   | ppb  |                          |              |
| 5/1/1997   | W-9-T1C     | WATER         | Initial        | TOLUENE      | U         | 0.5   | ppb  |                          |              |
| 5/1/1997   | W-9-T1C     | WATER         | Initial        | TPH DIESEL   |           | 12000 | ppb  |                          |              |
| 5/1/1997   | W-9-T1C     | WATER         | Initial        | XYLENES      | V 1-71    | 0.84  | ppb  |                          |              |
| 5/8/1997   | W-8-T1C     | WATER         | Final          | BENZENE      | U         | 0.5   | ppb  |                          |              |
| 5/8/1997   | W-8-T1C     | WATER         | Final          | ETHYLBENZENE | U         | 0.5   | ppb  |                          |              |
| 5/8/1997   | W-8-T1C     | WATER         | Final          | TOLUENE      | U         | 0.5   | ppb  |                          |              |
| 5/8/1997   | W-8-T1C     | WATER         | Final          | TPH DIESEL   |           | 2500  | ppb  |                          |              |
| 5/8/1997   | W-8-T1C     | WATER         | Final          | XYLENES      |           | 0.82  | ppb  |                          |              |
| 9/30/1998  | S047B01     | Water         | Initial        | Benzene      | <         | <0.1  | ppm  | 38.05                    | -122.04      |
| 9/30/1998  | S047B01     | Water         | Initial        | Ethylbenzene | <         | <0.1  | ppm  | 38.05                    | -122.04      |
| 9/30/1998  | S047B01     | Water         | Initial        | Toluene      | <         | 0.3   | ppm  | 38.05                    | -122.04      |
| 9/30/1998  | S047B01     | Water         | Initial        | Tph-d        | <         | <0.1  | ppm  | 38.05                    | -122.04      |
| 9/30/1998  | S047B01     | Water         | Initial        | Xylene       | <         | 0.5   | ppm  | 38.05                    | -122.04      |
| 11/24/1998 | E108MW09    | Groundwater   | Final          | TPH-d        | <         | 0.5   | ppb  |                          |              |
| 2/16/1999  | E108MW09    | Groundwater   | Final          | TPH-d        | <         | 0.5   | ppb  |                          |              |

### Soil Results, ppm

| DATE      | Sample N   | Source Matrix | Sampling Depth (ft) | Sampling P | hase Analyte name | Qualifier | Value | Unit Location and Comments |
|-----------|------------|---------------|---------------------|------------|-------------------|-----------|-------|----------------------------|
| 4/24/1997 | S-7-T1E    | Soil          | 7                   | Initial    | BENZENE           | U         | 0.005 | ppm                        |
| 4/24/1997 | S-7-T1W    | Soil          | 7                   | Initial    | BENZENE           | U         | 0.005 | ppm                        |
| 4/24/1997 | S-7-T1E    | Soil          | 7                   | Initial    | ETHYLBENZENE      | U         | 0.005 | ppm                        |
| 4/24/1997 | S-7-T1W    | Soil          | 7                   | Initial    | ETHYLBENZENE      | U         | 0.005 | ppm                        |
| 4/24/1997 | S-7-T1W    | Soil          | 7                   | Initial    | TOLUENE           | U         | 0.005 | ppm                        |
| 4/24/1997 | S-7-T1E    | Soil          | 7                   | Initial    | TOLUENE           | U         | 0.005 | ppm                        |
| 4/24/1997 | S-7-T1E    | Soil          | 7                   | Initial    | TPH DIESEL        | U         | 1     | ppm                        |
| 4/24/1997 | S-7-T1W    | Soil          | 7                   | Initial    | TPH DIESEL        | U         | 1     | ppm                        |
| 4/24/1997 | S-7-T1W    | Soil          | 7                   | Initial    | XYLENES           | U         | 0.005 | ppm                        |
| 4/24/1997 | S-7-T1E    | Soil          | 7                   | Initial    | XYLENES           | U         | 0.005 | ppm                        |
| 5/1/1997  | S-8.5-T1SW | Soil          | 8                   | Final      | BENZENE           | U         | 0.005 | ppm                        |
| 5/1/1997  | S-8-T1NW   | Soil          | 8                   | Final      | BENZENE           | U         | 0.005 | ppm                        |
| 5/1/1997  | S-8.5-T1SW | Soil          | 8                   | Final      | ETHYLBENZENE      | U         | 0.005 | ppm                        |
| 5/1/1997  | S-8-T1NW   | Soil          | 8                   | Final      | ETHYLBENZENE      | U         | 0.005 | ppm                        |
| 5/1/1997  | S-8-T1NW   | Soil          | 8                   | Final      | TOLUENE           | U         | 0.005 | ppm                        |
| 5/1/1997  | S-8.5-T1SW | Soil          | 8                   | Final      | TOLUENE           | U         | 0.005 | ppm                        |
| 5/1/1997  | S-8.5-T1SW | Soil          | 8                   | Final      | TPH DIESEL        | U         | 1     | ppm                        |
| 5/1/1997  | S-8-T1NW   | Soil          | 8                   | Final      | TPH DIESEL        | U         | 1     | ppm                        |
| 5/1/1997  | S-8-T1NW   | Soil          | 8                   | Final      | XYLENES           | U         | 0.005 | ppm                        |
| 5/1/1997  | S-8.5-T1SW | Soil          | 8                   | Final      | XYLENES           | U         | 0.005 | ppm                        |
| 5/6/1997  | S-9-T1C    | Soil          | 9                   | Final      | BENZENE           | U         | 0.005 | ppm                        |
| 5/6/1997  | S-9-T1C    | Soil          | 9                   | Final      | ETHYLBENZENE      | U         | 0.005 | ppm                        |
| 5/6/1997  | S-9-T1C    | Soil          | 9                   | Final      | TOLUENE           | U         | 0.005 | ppm                        |
| 5/6/1997  | S-9-T1C    | Soil          | 9                   | Final      | TPH DIESEL        | U         | 1     | ppm                        |
| 5/6/1997  | S-9-T1C    | Soil          | 9                   | Final      | XYLENE            | U         | 0.005 | ppm                        |
|           |            |               |                     |            |                   |           |       |                            |

### Tank Information

| TANK NO. | TANK SIZE (gal) | TANK CONTENTS | TANK ACTION | DATE     | LATITUDE (Decimal Degrees) | LONGITUDE (Decimal Degrees) |  |
|----------|-----------------|---------------|-------------|----------|----------------------------|-----------------------------|--|
| E85      | 1500            | Diesel        | Removed     | 4/27/199 | 7 38.048902338876          | -122.0233431313             |  |

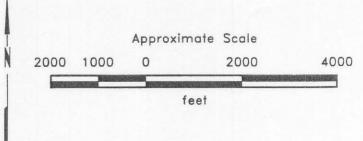


= Naval Weapons Station Boundary

= Site location

Source: U.S. Geological Survey
7.5-Minute Quadrangles
Honker Bay/Vine Hill, California

Photorevised 1980





PROJECT NO.

DON001

SITE VICINITY MAP Naval Weapons Station Concord, California PLATE

1

